ACI UNIVERSAL PAYMENTS.

ACI Worldwide Launches Advanced Machine Learning Capability to Dramatically Reduce Payment Fraud for Banks and Merchants and Their Customers

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Patented Incremental Learning technology will deliver machine learning models that can adapt quickly to changing fraud patterns

NAPLES, Fla. & LIMERICK, Ireland--(BUSINESS WIRE)-- ACI Worldwide (NASDAQ: ACIW), a leading global provider of real-time electronic payment and banking solutions, today announced the launch of its new 'Incremental Learning' technology – an innovative industry-first approach to machine learning that will enhance fraud protection for merchants and financial institutions and their customers.

ACI has filed a patent application for its 'Incremental Learning' technology, which is being implemented in machine learning models within ACI's fraud prevention solutions, including Proactive Risk Manager, which delivers enterprise fraud management capabilities for financial institutions and intermediaries; and ACI ReD Shield, which underpins ACI's secure eCommerce and merchant fraud management capabilities.

ACI's 'Incremental Learning' technology represents a significant advancement over current machine learning models that need to be retrained as fraud patterns change. Incremental Learning models are able 'to think for themselves' and make small adjustments on an ongoing basis to ensure they remain relevant, even as fraudsters and genuine consumers change their behaviors. 13-month tests carried out on data from three major retail customers revealed that, while traditionally trained models began to degrade after three months, ACI's incremental models maintained their performance over the full period of the test.

"Traditional machine learning models in many cases are not sufficient to stop fraudsters in their tracks. As fraudsters become more sophisticated, we need to continuously advance our models to beat them at their own game," said Jimmy Hennessy, director of Data Science, ACI Worldwide. "Our global data science team has created a game-changing piece of machine learning technology that can be seamlessly integrated and future-proofs the precision and operational efficiency for over 5,000 institutions protected by our solutions today."

ACI has more than 20 years of experience in designing and implementing machine learning models, which have long been a fundamental element within Proactive Risk Manager and ACI ReD Shield. ACI's machine learning models will quickly and efficiently analyze all available features and data points, which will then be turned into intelligence that can build customer profiles, spot fraud signals and combat emerging fraud threats. Any anomalies are flagged in real time and immediately actioned.

"We are the first vendor globally to roll out the new Incremental Learning technology across the merchants, payments and financial services sectors," commented Fabian Gloerfeld, head of Payments Intelligence, ACI Worldwide. "The new capability is a realization of ACI's multi-year investments and will further enhance our sophisticated fraud monitoring and prevention solutions to help customers to dramatically reduce payments fraud."

About ACI Worldwide
ACI Worldwide, the Universal Payments (UP) company, powers electronic payments for more than 5,100 organizations around the world. More than 1,000 of the largest financial institutions and intermediaries, as well as thousands of global merchants, rely on ACI to execute $14 trillion each day in payments and securities. In addition, myriad organizations utilize our electronic bill presentment and payment services. Through our comprehensive suite of software solutions delivered on customers' premises or through ACI's private cloud, we provide real-time, immediate payments capabilities and enable the industry's most complete omni-channel payments experience. To learn more about ACI, please visit www.aciworldwide.com. You can also find us on Twitter @ACI_Worldwide.

Product roadmaps are for informational purposes only and may not be incorporated into a contract or agreement. The development release and timing of future product releases remains at ACI's sole discretion. ACI is providing the following information in accordance with ACI's standard product communication policies. Any resulting features, functionality, and enhancements or timing of release of such features, functionality, and enhancements are at the sole discretion of ACI and may be modified without notice. All product roadmap or other similar information does not represent a commitment to deliver any material, code, or functionality, and should not be relied upon in making a purchasing decision.

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